



Building Permit Application

Howard County Maryland
Department of Inspections, Licenses and Permits
3430 Court House Drive
Permits: 410-313-2455
www.howardcountymd.gov

DILP 2019 SEP 25 AM 11:3
Date Received: 9/17/19

Permit No.: B19003005

Building Address: 16708 Frederick Rd
 City: Mt Airy State: MD Zip Code: 21771
 Suite/Apt. # _____ SDP/WP/BA #: _____
 Subdivision: _____
 Lot: _____ Tax Map: _____ Parcel: _____

Existing Use: Auto Repair
 Proposed Use: Add Heaters
 Estimated Construction Cost: \$ 2000 -
 Description of Work: Add 2 Heaters to ceiling with Hangers

Occupant/Tenant Name: Billy Baker Automotive
 Was tenant space previously occupied? Yes No
 Contact Name: Jack Azat
 Address: 3219 Hooper Rd
 City: New Windsor State: MD Zip Code: 21776
 Phone: 443-744-1998 Fax: _____
 Email: Jacks Handyman @ Comcast.net

Property Owner's Name: Ramzi Azat
 Address: 3219 Hooper Rd
 City: New Windsor State: MD Zip Code: 21776
 Phone: 443-744-1998 Fax: _____
 Email: Jacks Handyman @ Comcast.net

Applicant's Name & Mailing Address, (If other than stated herein)
 Applicant's Name: _____
 Address: _____
 City: _____ State: _____ Zip Code: _____
 Phone: _____ Fax: _____
 Email: _____

Contractor Company: Jacks Handyman
 Contact Person: Jack Azat
 Address: Same as above
 City: _____ State: _____ Zip Code: _____
 License No.: 88211
 Phone: _____ Fax: _____
 Email: Same as Above

Engineer/Architect Company: Harkins Engineering
 Responsible Design Prof.: Jeff Harkins
 Address: 906 Pine Ave
 City: Frederick State: MD Zip Code: 21701
 Phone: 301-698-8207 Fax: _____
 Email: HSE11C1 @ Comcast.net

Commercial Building Characteristics	Residential Building Characteristics	
Height: <u>14 ft</u>	<input type="checkbox"/> SF Dwelling <input type="checkbox"/> SF Townhouse	
No. of stories: <u>1</u>	Depth	Width
Gross area, sq. ft./floor: <u>2000</u>	1 st floor:	
Area of construction (sq. ft.): <u>10 ft</u>	2 nd floor:	
Use group:	Basement:	
	<input type="checkbox"/> Finished Basement	
	<input type="checkbox"/> Unfinished Basement	
	<input type="checkbox"/> Crawl Space	
	<input type="checkbox"/> Slab on Grade	
Construction type:	No. of Bedrooms:	
<input type="checkbox"/> Reinforced Concrete		
<input checked="" type="checkbox"/> Structural Steel	Multi-family Dwelling	
<input checked="" type="checkbox"/> Masonry	No. of efficiency units:	
<input type="checkbox"/> Wood Frame	No. of 1 BR units:	
<input type="checkbox"/> State Certified Modular	No. of 2 BR units:	
	No. of 3 BR units:	
	Other Structure:	
	Dimensions:	
<input checked="" type="checkbox"/> Roadside Tree Project Permit	Footings:	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Roof:	
Roadside Tree Project Permit #	<input type="checkbox"/> State Certified Modular	
	<input type="checkbox"/> Manufactured Home	

Utilities	
Electric:	<input type="checkbox"/> Yes <input type="checkbox"/> No
Gas:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Water Supply	
<input type="checkbox"/> Public	
<input checked="" type="checkbox"/> Private	
Sewage Disposal	
<input type="checkbox"/> Public	
<input checked="" type="checkbox"/> Private	
Heating System	
<input type="checkbox"/> Electric	<input checked="" type="checkbox"/> Oil
<input type="checkbox"/> Natural Gas	<input type="checkbox"/> Propane Gas
<input type="checkbox"/> Other:	
Sprinkler System:	
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Grading Permit Number:	
Building Shell Permit Number:	

THE UNDERSIGNED HEREBY CERTIFIES AND AGREES AS FOLLOWS: (1) THAT HE/SHE IS AUTHORIZED TO MAKE THIS APPLICATION; (2) THAT THE INFORMATION IS CORRECT; (3) THAT HE/SHE WILL COMPLY WITH ALL REGULATIONS OF HOWARD COUNTY WHICH ARE APPLICABLE THERETO; (4) THAT HE/SHE WILL PERFORM NO WORK ON THE ABOVE REFERENCED PROPERTY NOT SPECIFICALLY DESCRIBED IN THIS APPLICATION; (5) THAT HE/SHE GRANTS COUNTY OFFICIALS THE RIGHT TO ENTER ONTO THIS PROPERTY FOR THE PURPOSE OF INSPECTING THE WORK PERMITTED AND POSTING NOTICES.

Applicant's Signature: Jacks Handyman @ Comcast.net Print Name: Jack Azat
 Email Address: Jacks Handyman home Imp Date: Sept - 17 - 2019
 Title/Company: _____

Checks Payable to: DIRECTOR OF FINANCE OF HOWARD COUNTY
 PLEASE WRITE NEATLY & LEGIBLY
 -FOR OFFICE USE ONLY-

AGENCY	DATE	SIGNATURE OF APPROVAL
State Highways		
Building Officials		
PSZA (Zoning)		
PSZA (Engineering)		
Health	<u>10/4/19</u>	<u>[Signature]</u>

Is Sediment Control approval required for issuance? Yes No
 CONTINGENCY CONSTRUCTION START

DPZ SETBACK INFORMATION
Front:
Rear:
Side:
Side St.:
All minimum setbacks met? <input type="checkbox"/> Yes <input type="checkbox"/> No
Is Entrance Permit Required? <input type="checkbox"/> Yes <input type="checkbox"/> No
Historic District? <input type="checkbox"/> Yes <input type="checkbox"/> No
Lot Coverage for New Town Zone:
SDP/Red-line approval date:

Filing Fee	\$ <u>200</u>
Permit Fee	\$
Tech Fee	\$
Excise Tax	\$
PSFS	\$
Guaranty Fund	\$
Add'l per Fee	\$
Total Fees	\$
Sub- Total Paid	\$
Balance Due	\$
Check	#

Modine Heater Model # HD 125

Voltage - 120V
HP - 1/8
AMPS - 4.2 AMPS

NAME PLATE

Continuous Load Amps (125%)

$$4.2 \times 125\% = 5.25$$

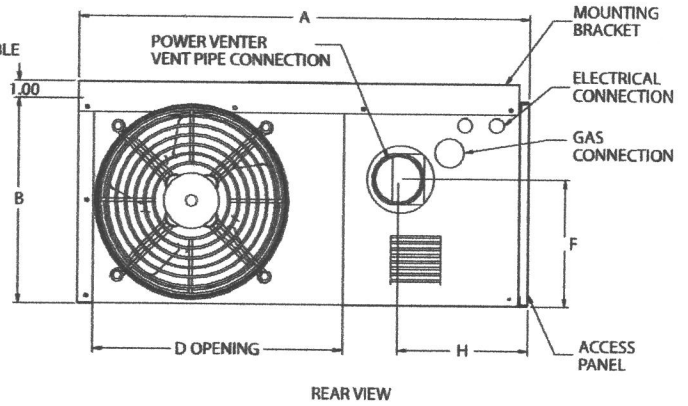
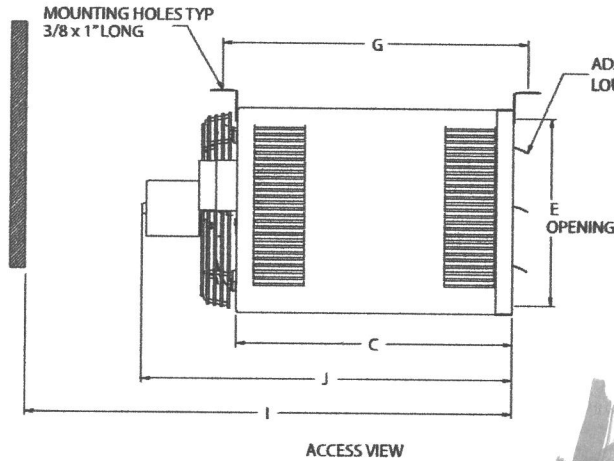
TOTAL Continuous Load Amps

5.25 AMPS

Overcurrent Protection
30A Breaker



SUBMITTAL DATA power vented gas-fired unit heaters model HD



Performance

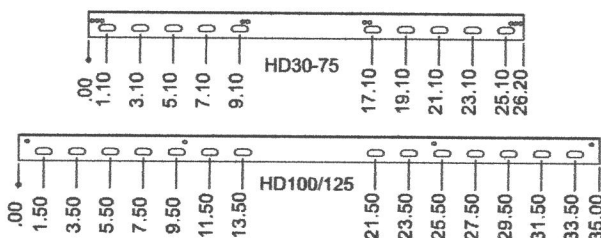
Models	HD30	HD45	HD60	HD75	HD100	HD125	
Btu/Hr Input	30,000	45,000	60,000	75,000	100,000	125,000	
Btu/Hr Output	24,600	36,900	49,200	61,500	82,000	10,500	
Entering Airflow (CFM)	505	720	990	1,160	1,490	1,980	
Outlet Velocity	523	749	653	769	565	747	
Air Temp. Rise (°F)	44	46	45	48	50	47	
Mounting Height (Max ft.)	10	10	12	14	12	16	
Heat Throw (ft.)	25	27	36	38	42	56	
Motor Data	Horsepower	1/15	1/15	1/12	1/12	1/8	
	RPM	1,550	1,550	1,625	1,625	1,050	
	Type	S.P.	S.P.	P.S.C.	P.S.C.	S.P.	P.S.C.
	Amps	2.4	2.4	1.2	1.2	2.7	2.2
Unit Total Amps	4.2	4.2	3.75	3.75	4.7	4.2	
Vent Connector Size (in.)	3	3	3	3	4	4	

Dimensions (inches)

Models	HD30	HD45	HD60	HD75	HD100/125
A	26.8	26.8	26.8	26.8	35.5
B	12.2	12.2	18.0	18.0	20.5
C	16.5	16.5	16.5	16.5	22.0
D	14.9	14.9	14.9	14.9	22.5
E	10.1	10.1	15.9	15.9	18.4
F	7.5	7.5	10.7	10.7	14.0
G	18.5	18.5	18.5	18.5	24.0
H	7.6	7.6	7.8	7.8	8.4
Gas Connection	1/2	1/2	1/2	1/2	1/2
I	34.5	34.5	34.5	34.5	43.0
J	22	22	25	25	31.0
Fan Diameter	10	10	14	14	18.0
Approx. Shipping Weight (lbs.)	55	60	80	85	125

Mounting

1" - angle, mounting brackets are slotted to accommodate joists on 16" or 24" centerlines.

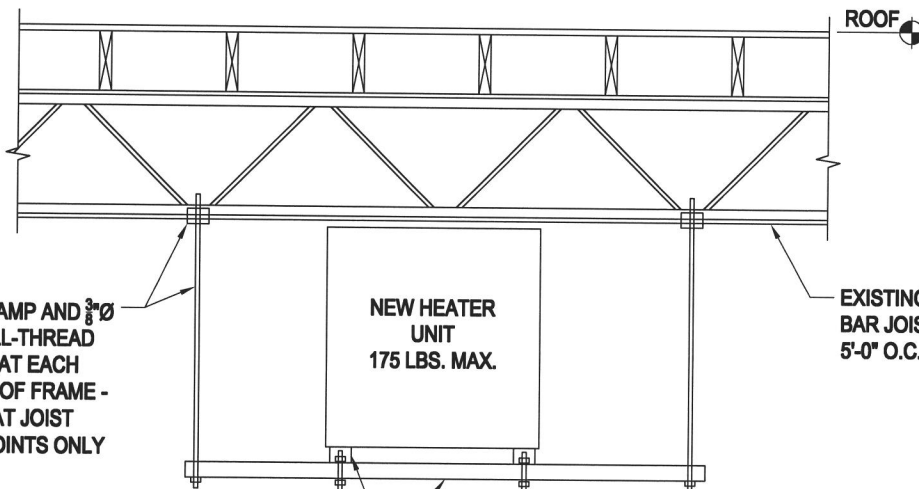


Clearances

Unit Side	Clearance To Combustible Materials	Recommended Service Clearance
Top and Bottom	1"	18"
Access Side	18"	18"
Non-Access Side	1"	18"
Rear	18"	18"
Vent Connector	4"	18"

Control Options

Control Description	Control Code No.	Service Voltage	Thermostat Voltage	Type of Gas	Model Size
Single-Stage, Direct Spark Ignition, 100% Shut-Off with Continuous Retry - Utilizes a single-stage combination gas control with ignition control. Gas is lit with a direct spark igniter on call for heat.	11	115V	24V	natural	30-125
	21	115V	24V	propane	30-125
Two-Stage, Direct Spark Ignition, 100% Shut-Off with Continuous Retry - Utilizes a two-stage combination gas control with built-in ignition control. Firing rate is 100% and 50% of full rated input. Gas is lit with a direct spark igniter on call for heat.®	12	115V	24V	natural	75-125
	22	115V	24V	propane	75-125



BEAM CLAMP AND 3/8" STEEL ALL-THREAD HANGER AT EACH CORNER OF FRAME - FASTEN AT JOIST PANEL POINTS ONLY

EXISTING STEEL BAR JOISTS @ 5'-0" O.C. MAX.

UNISTRUT P1000 BEAMS (OR EQUAL)

DETAIL AT NEW HEATER SUPPORT

1
SK1.1

NOT TO SCALE

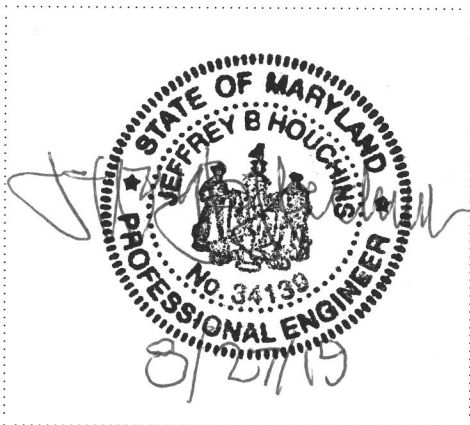
JOB NAME:
16708 FREDERICK RD, MT. AIRY, MD 21771

DRAWN BY: TRP
CHECKED BY: JBH

DATE: 8/27/19
JOB NO.: 1901.56

TITLE:
SECTIONS AND DETAILS

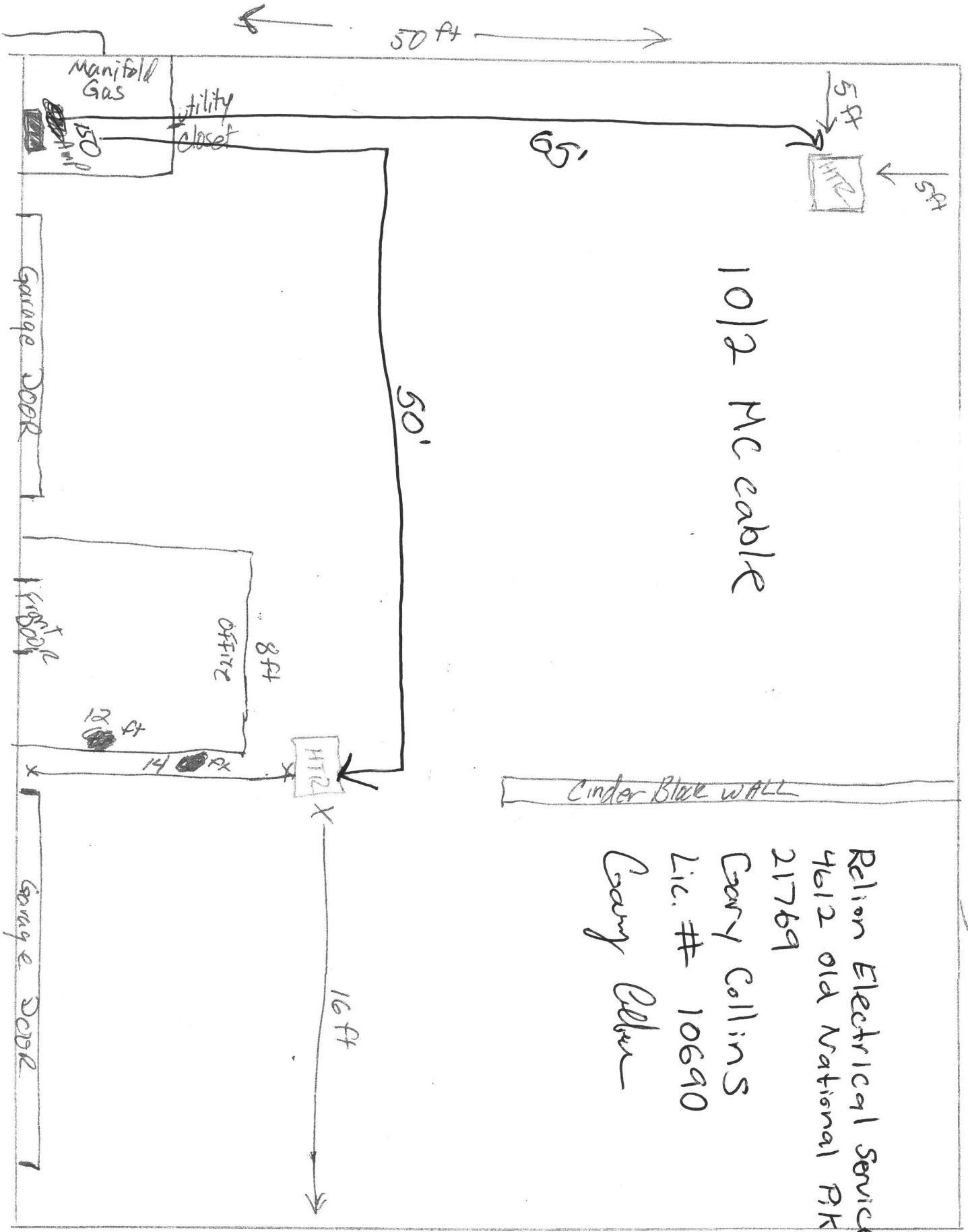
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1 OF 1



HOUCHINS SPECIALTY ENGINEERING, LLC
CONSULTING STRUCTURAL ENGINEERS

906 PINE AVENUE
FREDERICK, MD. 21701
PHONE / FAX: 301.698.8207
HSELLC1@COMCAST.NET

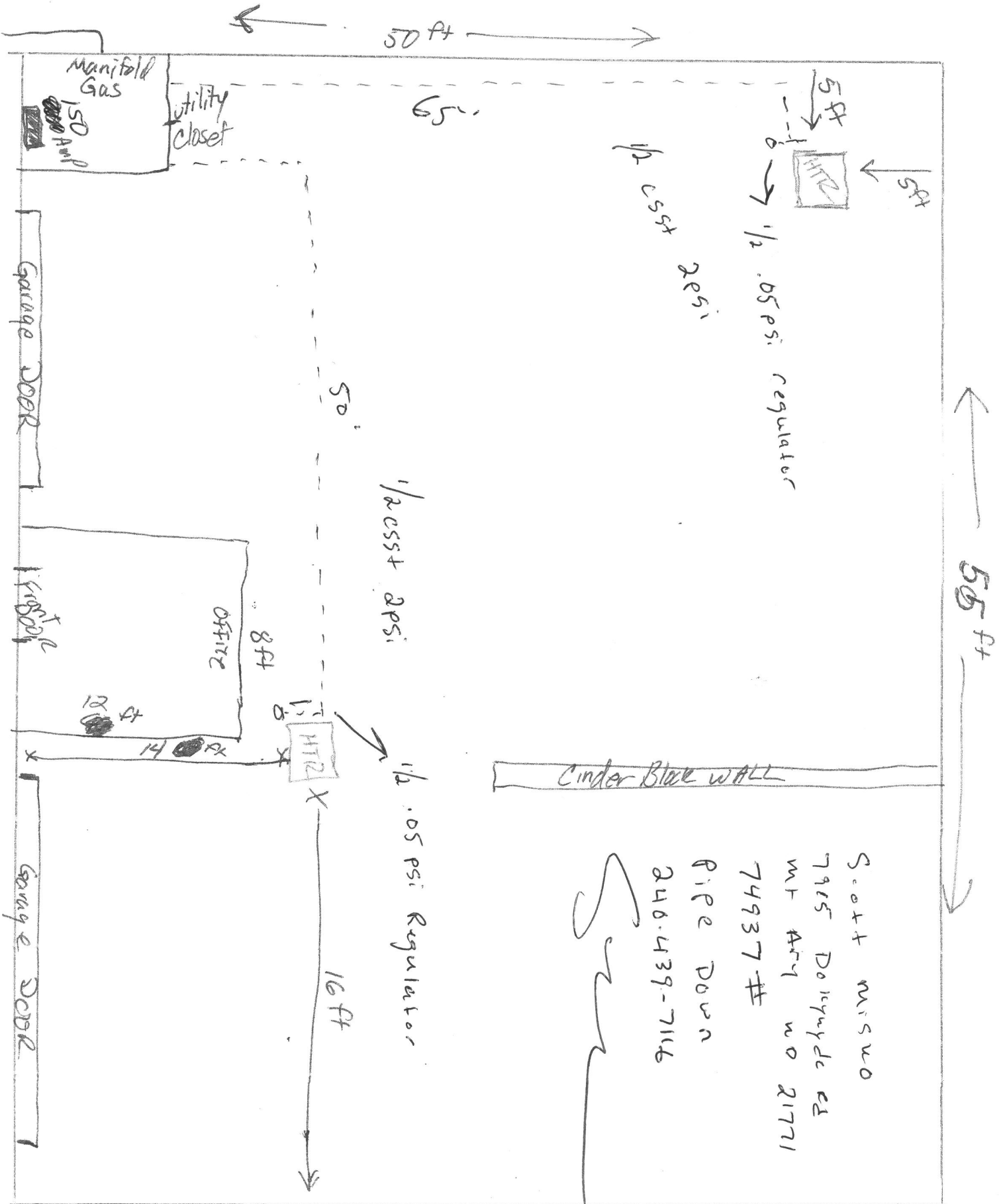
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NUMBER 34139, EXPIRATION DATE: MARCH 11, 2021



10/2 Mc cable

Relion Electrical Services
 4612 Old National PKE
 21769
 Gary Collins
 Lic. # 10690
 Gary Elmer

1/7/02 Encoder v 0.1



1.7202 Enclosure 0.1